

02-CV-01178-EXH

1 The Honorable Barbara Jacobs Rothstein 2 3 4 5 6 7 8 UNITED STATES DISTRICT COURT WESTERN DISTRICT OF WASHINGTON 9 UNITED STATES OF AMERICA, 10 **Plaintiff** Civil Action No. CV02-1178R 11 APPENDIX A TO THE CONSENT v. 12 DECREE BETWEEN THE UNITED SHELL PIPELINE COMPANY LP fka STATES OF AMERICA AND 13 **EQUILON PIPELINE COMPANY LLC** SHELL PIPELINE COMPANY LP and OLYMPIC PIPE LINE COMPANY, fka EQUILON PIPELINE 14 COMPANY LLC (OTHER RELIEF) Defendants. 15 **DEFINITIONS** I. 16 1. The terms used in this Appendix shall have the meaning assigned to them in Paragraph 4 17 of the Consent Decree to which this Appendix is attached. Whenever terms listed below 18 are used in this Appendix or in the Exhibits attached to this Appendix, the following 19 definitions shall apply: 20 "AGA" shall mean the American Gas Association. a. 21 b. "AGA Project PR-3-805" shall mean an AGA publication entitled "A Modified 22 Criterion for Evaluating the Remaining Strength of Corroded Pipe," December, 23 1989, a copy of which is attached to, and incorporated into this Appendix as 24 Exhibit 1. 25 APPENDIX A - CV02-1178R United States Department of Justice 26 Draft - December 27, 2002 Post Office Box 7611 Washington, D.C. 20044-7611 Telephone: 202-305-0300 -1-

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- k. "Cathodic Protection System" shall mean a system to prevent the corrosion of a metal surface by making that surface the cathode of an electrochemical cell with the use of impressed current or galvanic anodes.
- 1. "Commercially Navigable Waterway" shall mean a commercially navigable waterway as defined and identified pursuant to 49 C.F.R. §§ 195.450, 195.452.
- m. "EFRD" shall mean an emergency flow restricting device that either is a check valve (a type of valve that permits fluid flow in one direction only), or a valve that can be remotely operated from another monitoring or control location, including an existing valve that will be converted to a remotely operated valve that can be operated from another monitoring or control location.
- n. "Engineering Judgment" shall mean judgment based on the application of scientific and mathematical principles to the design, construction, operation, and maintenance of pipeline systems, with such judgment exercised by a suitably qualified person.
- o. "Excavation Activity" shall mean digging, deep plowing, blasting, boring, directional drilling, other trench-less excavation methods, clearing, grading, ditching, tunneling, dredging, back-filling, the removal of above-ground structures by either explosive or mechanical means, and other earth moving operations.
- p. "Excavator" shall mean any person or entity engaging in Excavation Activity.
- q. "Exposed Pipe" shall mean any pipe at or above any body of water or at or above ground level, unless (1) the pipe was intentionally designed and intentionally installed above ground (a) to traverse land; (b) as an overhead crossing of a body of water, a highway, a railroad, or similar structure; (c) as a span over a ditch or gully; (d) as part of a scraper trap or block valve; or (e) within a fenced area owned, leased, or maintained by Shell constituting a pump station, tank farm,

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1		metering facility, delivery facility, or junction; and (2) the pipe is protected from
2		the forces exerted by the anticipated loads.
3	r.	"High Consequence Area" shall mean a high consequence area as defined and
4		identified pursuant to 49 C.F.R. §§ 195.450, 195.452.
5	S.	"ILI" shall mean in-line inspection.
6	t.	"ILI Vendor" shall mean a vendor in the business of performing ILIs of hazardous
7		liquid pipelines using ILI tools that generate data regarding suspected defects on
		hazardous liquid pipelines and providing analysis of the data.
8	u.	"Independent Monitoring Contractor" or "IMC" shall mean the Independent
9		Monitoring Contractor selected pursuant to Section XIV of this Appendix.
10	v.	"Metal Loss Tool" shall mean a high resolution magnetic flux leakage tool or an
11		alternative tool selected pursuant to Paragraph 5 of this Appendix.
12	w.	"MOP" shall mean maximum operating pressure.
13	x.	"NACE" shall mean National Association of Corrosion Engineers.
14	y.	"NACE RP0169-2002" shall mean a document entitled "Standard Recommended
15		Practice: Control of External Corrosion on Underground or Submerged Metallic
16		Piping Systems," NACE RP0169-2002, originally approved in 1969, reaffirmed
17		in 2002, a copy of which is attached to, and incorporated into this Appendix as
18		Exhibit 7.
19	z.	"One-Call System" shall mean a notification system through which a person can
20		notify owners and operators of underground lines or facilities of proposed
		excavations.
21	aa.	"Pipeline" shall mean all main transmission line portions of Shell Pipeline
22		Systems comprising line pipe.
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- bb. "Responsible Corporate Officer" shall mean the person or persons designated by
 Shell to perform relevant decision-making functions, and who has authority to
 sign documents on behalf of Shell with respect to the Decree.
- cc. "Supervisory Control and Data Acquisition (SCADA) System" shall mean a computer-based communications system that gathers, processes, and displays data from field instrumentation and allows an operations controller to execute control functions;
- dd. "Semester" shall mean either the period from January 1 through June 30 of any calendar year, or the period from July 1 through December 31 of any calendar year.
- ee. "Shallow Cover Pipe" shall mean any portion of the Pipeline that crosses under a Commercially Navigable Waterway and which has a depth of cover of less than 24 inches.
- iff. "Shell Pipeline Systems" shall mean the pipeline systems commonly referred to as the East Line Products, North Line Products, Chase Kansas Products, Chase Colorado Products, and Orion Products pipeline systems that are used for transporting petroleum products, and include approximately 2139 miles of pipeline running in the States of Texas, Oklahoma, Colorado, Kansas, Ohio, Illinois, and Indiana and associated structures and buildings used for operations and administration, control equipment, pumps, valves, breakout storage tanks, and other equipment used in the operation of the pipeline systems, and any like additions to the Shell Pipeline Systems made during the pendency of this Consent Decree. The term does not include facilities such as refineries, lube plants, and marine and distribution terminals that are connected to, or associated with the pipelines but which perform separate functions such as storage or blending.
- gg. "SMYS" shall mean the specified minimum yield strength.

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"Top-Side of the Pipeline" shall mean the portion of the Pipeline above the hh. 8:00 o'clock and 4:00 o'clock positions on any part of the Pipeline.

CONSTRUCTION OF THIS APPENDIX II.

2. If compliance with applicable provisions of ASME, NACE, AGA, or API publications would prevent compliance with this Consent Decree, Shell shall comply with this Consent Decree. If compliance with this Consent Decree or with applicable provisions of ASME, NACE, AGA, or API publications would prevent compliance with applicable laws and regulations, Shell shall comply with applicable laws and regulations. All references to ASME, NACE, AGA, or API publications in this Appendix shall be construed to be specific to the documents incorporated by reference herein and attached as Exhibits to this Appendix, and no such references shall be interpreted to include, or require compliance with, any modifications or amendments to any such documents subsequent to the versions attached as Exhibits to this Appendix.

III. ILIS, EVALUATIONS, EXCAVATIONS, AND RESPONSE REQUIREMENTS

Pipelines Covered A.

3. The Pipeline consists of the segments described in the table below.

Pipeline System	Segment	Nominal Pipe Size	Length (miles)
Chase Kansas Products	Sunset-Eldorado	8"	2.0
Chase Kansas Products	Eldorado-Hudson	10"	107.0
Chase Kansas Products	Hudson-Scott City	10"	146.0
Chase Colorado Products	Scott City-Aurora	10"	228.0
Chase Colorado Products	Aurora to DIA .	10"	17.7
Chase Colorado Products	Sunset to Eldorado	16"	2.0 '
Chase Colorado Products	Eldorado to MP44	10"	44.0
Chase Colorado Products	MP44 to Scott City	12"	185.0
East Line Products	Wood River to Zionsville	12"	225.0
East Line Products	Zionsville to Lima	12"	127.0
North Line Products	Wood River to Peotone	14"	220.0

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Peotone to Argo	14"	32.0
Peotone to East Chicago	14"	28.0
Argo to Des Plaines	14"	27.0
East Houston to	16"	174.8
Corsicana to Frost	20"	23.0
Frost to Clyde	16"	163.0
Clyde to Abilene	14"	10.0
Abilene to Tye	16"	8.0
Tye to Stanton	16"	116.0
Stanton to Midland	14"	16.0
Midland to Odessa	12"	25.0
Frost to Underwood	12"	69.5
Underwood to Henrietta	12"	89.1
Henrietta to Duncan	12"	48.5
Underwood to Pride	12"	3.0
Pride to Aledo	6"	2.0
	Argo to Des Plaines East Houston to Corsicana to Frost Frost to Clyde Clyde to Abilene Abilene to Tye Tye to Stanton Stanton to Midland Midland to Odessa Frost to Underwood Underwood to Henrietta Henrietta to Duncan Underwood to Pride	Peotone to East Chicago 14" Argo to Des Plaines 14" East Houston to 16" Corsicana to Frost 20" Frost to Clyde 16" Clyde to Abilene 14" Abilene to Tye 16" Tye to Stanton 16" Stanton to Midland 14" Midland to Odessa 12" Frost to Underwood 12" Underwood to Henrietta 12" Henrietta to Duncan 12" Underwood to Pride 12"

B. ILIs Using Both Deformation and Metal Loss Tools

1. General Requirements

- 4. For each ILI required by this Appendix, Shell shall ensure that each ILI Vendor calibrates the inspection tool in accordance with applicable ILI Vendor standards and that each ILI Vendor provides verification of the calibration to Shell.
- 5. Whenever Shell uses a magnetic flux leakage tool for an ILI required by this Appendix,
 Shell shall use a high resolution magnetic flux leakage tool. Shell may use a Metal Loss
 Tool other than a magnetic flux leakage tool if:
 - a. The alternative Metal Loss Tool is more appropriate, in the exercise of reasonable Engineering Judgment, considering the circumstances; and
 - Shell informs EPA of the technical basis for selecting the alternative Metal Loss
 Tool before conducting the ILI.

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2. ILI Schedule

- 6. Shell shall complete ILIs during 2003 using both a Metal Loss Tool and a deformation ILI tool on the following segments of the North Line Products Pipeline System within Shell Pipeline Systems: Peotone to East Chicago 14" and Argo to Des Plaines 14". For the 2003 ILIs, Shell may utilize any Analyzed ILI Data or other information from ILIs conducted on or after January 1, 2002.
- 7. Shell shall complete ILIs during 2003 using both a Metal Loss Tool and a deformation ILI tool on the following segments of the Orion Products Pipeline System within Shell Pipeline Systems: Walnut Springs to Clyde 16" (sub-segment), and Frost to Underwood 12". For the 2003 ILIs, Shell may utilize any Analyzed ILI Data or other information from ILIs conducted on or after January 1, 2002.
- 8. Shell shall complete ILIs during 2007 using both a Metal Loss Tool and a deformation ILI tool on the following segments of the Orion Products Pipeline System within Shell Pipeline Systems: Abilene to Tye 16", Clyde to Abilene 14" and Frost to Walnut Springs 16"(sub-segment).
- 9. Shell shall complete ILIs during 2003 using both a Metal Loss Tool and a deformation ILI tool on the following segments of the Chase Colorado Products Pipeline System within Shell Pipeline Systems: Scott City to Aurora 10", Eldorado to MP44 10", and MP44 to Scott City 12". For the 2003 ILIs, Shell may utilize any Analyzed ILI Data or other information from ILIs conducted on or after January 1, 2002.
- 10. Shell shall complete ILIs during 2003 using both a Metal Loss Tool and a deformation ILI tool on the following segments of the East Line Products Pipeline System within Shell Pipeline Systems: Wood River to Zionsville 12" and Zionsville to Lima 12". For the 2003 ILIs, Shell may utilize any Analyzed ILI Data or other information from ILIs conducted on or after January 1, 2002.

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- 11. Shell shall complete an ILI during 2003 using both a Metal Loss Tool and a deformation ILI tool on the Wood River to Peotone 14" segment of the North Line Products Pipeline System within Shell Pipeline Systems. For the 2003 ILI, Shell may utilize any Analyzed ILI Data or other information from ILIs conducted on or after January 1, 2002.
- 12. Shell shall complete ILIs during 2003 using both a Metal Loss Tool and a deformation ILI tool on the following segments of the Orion Products Pipeline System within Shell Pipeline Systems: Tye to Stanton 16", Stanton to Midland 14", Underwood to Henrietta 12", and Henrietta to Duncan 12". For the 2003 ILIs, Shell may utilize any Analyzed ILI Data or other information from ILIs conducted on or after January 1, 2002.
- 13. Shell shall perform an ILI during 2004 using both a Metal Loss Tool and a deformation ILI tool on the Aurora to DIA 10" segment of the Chase Colorado Products Pipeline System within Shell Pipeline Systems.
- 14. Shell shall perform an ILI during 2004 using both a Metal Loss Tool and a deformation ILI tool on the Midland to Odessa 12" segment of the Orion Products Pipeline System within Shell Pipeline Systems.
- 15. Shell shall perform an ILI during 2005 using both a Metal Loss Tool and a deformation ILI tool on the East Houston to Corsicana 16" segment of the Orion Products Pipeline System within Shell Pipeline Systems.
- 16. Shell shall perform ILIs during 2006 using both a Metal Loss Tool and a deformation ILI tool on the following segments of the Chase Kansas Products Pipeline System within Shell Pipeline Systems: Eldorado to Hudson 10" and Hudson to Scott City 10".
- 17. Shell shall perform an ILI during 2006 using both a Metal Loss Tool and a deformation ILI tool on the Corsicana to Frost 20" segment of the Orion Products Pipeline System within Shell Pipeline Systems.

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C. Evaluation Requirements

18. Within 1 year after completing any ILI required by this Appendix, Shell shall obtain Analyzed ILI Data and shall use reasonable Engineering Judgment to complete an evaluation of that data and other appropriate and adequate information to identify predicted or suspected defects or anomalies described in Paragraph 24 of this Appendix. The date of completion of the evaluation required by this Paragraph shall be deemed the Date of Discovery of the predicted or suspected defects or anomalies identified in the evaluation.

D. Excavation and Response Requirements

- 19. After Shell completes any evaluation required by Paragraph 18 of this Appendix, and within the time required by Paragraphs 20-22 of this Appendix, Shell shall:
 - a. excavate and perform a visual inspection and further evaluation to confirm the existence of any defects or anomalies described in Paragraph 24 of this Appendix at each location where such defects or anomalies were predicted or suspected as a result of the evaluation performed pursuant to Paragraph 18 of this Appendix; and
 - b. repair, remove, or replace, any portion of the Pipeline for which visual inspection and further evaluation confirms the existence of any of the defects or anomalies described in Paragraph 24 of this Appendix.
- 20. Excavation and Response Schedule for Pipeline Within a High Consequence Area. For all Pipeline covered by an ILI required by this Appendix and within a High Consequence Area, Shell shall complete all excavation and response requirements in the preceding Paragraph within 9 months from the Date of Discovery as defined in Paragraph 18 of this Appendix, unless Shell has reasonably determined, pursuant to Paragraph 25 of this Appendix, that a reinterpretation of the Analyzed ILI Data is required or that a new ILI must be performed.

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- 21. Excavation and Response Schedule for Pipeline Not Within a High Consequence Area.

 For all Pipeline covered by an ILI required by this Appendix and not located within a

 High Consequence Area, Shell shall complete all excavation and response requirements
 in Paragraph 19 of this Appendix within 18 months from the Date of Discovery as
 defined in Paragraph 18 of this Appendix, unless Shell has reasonably determined,
 pursuant to Paragraph 25 of this Appendix, that a reinterpretation of the Analyzed ILI

 Data is required or that a new ILI must be performed.
- 22. Immediate Excavation and Response Requirements. Notwithstanding the schedule for excavation and repairs in Paragraphs 20 and 21 of this Appendix and pursuant to Paragraph 19 of this Appendix, as soon as safely possible after the Date of Discovery of predicted or suspected defects or anomalies that would meet the description in Subparagraphs a-d of this Paragraph, Shell shall temporarily reduce the operating pressure at the location of the predicted or suspected defect or anomaly (1) to 80% of the MOP; or (2) in the case of a defect or anomaly described in Subparagraph b of this Paragraph, based on the predicted burst pressure calculated in accordance with ASME B31G-1991 or AGA Project PR-3-805, until Shell has further evaluated the suspected defect or anomaly and completed any required responses. After reducing the operating pressure in accordance with the requirements of the preceding sentence, within 120 Days after the Date of Discovery, Shell shall excavate the predicted or suspected defect or anomaly and repair, remove, or replace any defect or anomaly, as defined in this Paragraph, confirmed by visual examination and further evaluation following excavation, after which the temporary pressure reduction required by the preceding sentence shall no longer be required. The defects or anomalies subject to these requirements are:
 - a. metal loss greater than or equal to 80% of the nominal wall thickness regardless of pipe dimension;

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1	b.	any defect or anom	aly for which a calculation of the remaining strength of the					
2		pipe shows a predicted burst pressure less than the established MOP at the						
3		location of the defe	ect or anomaly as determined by the calculation methods in:					
4		i. ASME B31	G-1991;					
5		ii. AGA Proje	ct_PR-3-805; or					
6		iii. upon appro	val by EPA, which approval may not unreasonably be					
7		withheld, a	ny other suitable calculation method;					
	c.	a dent on the Top-S	Side of the Pipeline that has an indication of metal loss,					
8		cracking, or a stres	s riser; and					
9	d.	a dent on the Top-S	Side of the Pipeline with a depth exceeding 6% of the nominal					
10	i	pipe diameter.						
11	23. She	ll shall perform the rep	air, removal, or replacement of any portion of the Pipeline					
12	pur	suant to Paragraphs 19-	22 of this Appendix in accordance with the standards in					
13	AS	ME B31.4-2002 Parts 4	151.6.2 and 451.6.3.					
14	E.	Response Standar	rds					
15	24. In a	ccordance with the sch	edule in Paragraphs 20-22 of this Appendix, Shell shall repair,					
16	rem	ove, or replace any por	tion of the Pipeline that has any of the following defects or					
17	ano	malies:						
18	a.	dents of any size co	ontaining a scratch, crack, gouge, or groove;					
19	b.	dents of any size th	at have an indication of metal loss, cracking, or a stress riser;					
20	c.	dents of any size th	at affect pipe curvature at the pipe seam or at any girth weld;					
21	d.	dents exceeding a	lepth of 6% of the nominal pipe diameter;					
	e.	corrosion of, or alo	ng, seam welds;					
22	f.	any defect or anom	aly for which a calculation of the remaining strength of the					
23		pipe using the crite	rion in ASME B31G-1991 or AGA Project PR-3-805 shows a					
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1		predicted burst pressure	less than or equal to 100% of the SMYS of the affected		
2		pipe;			
3	g.	metal loss greater than 5	0% of the nominal wall thickness in areas of general		
4		corrosion;			
5	h.	metal loss greater than 5	0% of the nominal wall thickness that is located at the		
6		crossing of another pipe	ine, or is in an area with widespread circumferential		
7		corrosion, or is in an are	a that could affect a girth weld;		
8	i.	metal loss greater than o	r equal to 80% of the nominal wall thickness regardless		
9	}	of pipe dimension;			
	j.	weld anomalies with me	al loss greater than 50% of nominal wall thickness;		
10	k.	cracks of any size;			
11	1.	gouges, and grooves of a	ny size;		
12	m.	arc burns of any size;			
13	n.	localized corrosion pittir	g as defined by ASME B31.4 § 451.6.2(a)(7); or		
14	0.	any defect or anomaly fe	or which a calculation of the remaining strength of the		
15		pipe shows a predicted b	urst pressure less than the established MOP at the		
16		location of the defect or	anomaly as determined by the calculation methods in:		
17		i. ASME B31G-199	91;		
18		ii. AGA Project PR	3-805; or		
19		iii. upon approval by	EPA, which approval may not unreasonably be		
20		withheld, any oth	er suitable calculation method.		
21	Nothin	g in this Appendix shall b	e or is intended to be an admission or concession by		
22	Shell th	nat any of the conditions s	et forth in this Paragraph or in Paragraph 22 of this		
	Appen	Appendix, if not immediately corrected, would likely result in a failure of the Pipeline or			
23	a releas	se of petroleum products i	rom that Pipeline.		
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F. Reinterpretation of ILI Data or Performance of New ILI

- 25. If during excavation or visual inspection and further evaluation of the predicted or suspected defects or anomalies identified pursuant to Paragraph 18 of this Appendix, Shell has a reasonable basis to determine that the anomalies described in the Analyzed ILI Data are characterized incorrectly or otherwise do not allow a reasonably accurate identification of defects or anomalies described in Paragraph 24 of this Appendix, Shell may, based on reasonable Engineering Judgment, elect to cease excavation and evaluation activities and consult with the ILI Vendor to determine whether to require a reinterpretation of the Analyzed ILI Data or to perform a new ILI. If Shell elects to cease excavation and evaluation activities, Shell shall notify EPA and the Independent Monitoring Contractor of the election no later than 60 Days before the original deadline for completing the excavation and response.
 - a. Within 60 Days after the date that Shell notifies EPA and the Independent Monitoring Contractor of its election to cease excavation and response activities, Shell shall either:
 - i. submit to EPA and the Independent Monitoring Contractor a written commitment to complete a reinterpretation and new evaluation of the Analyzed ILI Data and report to EPA and the Independent Monitoring Contractor the results of the new evaluation, including the Date of Discovery of any defects or anomalies pursuant to the new evaluation, within 90 Days of the date of the written commitment; or
 - ii. submit to EPA and the Independent Monitoring Contractor a written commitment to conduct a replacement ILI within 270 Days of the date of the written commitment.
 - If Shell elects to complete a reinterpretation and new evaluation of the Analyzed
 ILI Data in accordance with the Subparagraph a.i of this Paragraph, and

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recommences excavation and response activities and reasonably determines that the reinterpretation and new evaluation of the Analyzed ILI Data still improperly characterizes the defects or anomalies or otherwise does not allow a reasonably accurate identification of defects or anomalies described in Paragraph 24 of this Appendix, Shell shall submit to EPA and the Independent Monitoring Contractor a written commitment to conduct a replacement ILI within one year of the date of the commitment pursuant to Subparagraph a.i of this Paragraph to complete a reinterpretation and new evaluation of the Analyzed ILI Data.

- c. Whenever Shell proceeds with a replacement ILI pursuant to this Paragraph, Shell shall complete a new evaluation of the Analyzed ILI Data from the replacement ILI, and other appropriate and adequate information, within the time required by Paragraph 18 of this Appendix, and shall complete any required excavations, repairs, removals, or replacements within the time required by Paragraphs 20-22 of this Appendix.
- G. Dispute Resolution Regarding Shell's Obligations Pursuant to Paragraphs 18 through 25 of this Appendix
- 26. Shell shall include a written Notice of Completion in the Semiannual Progress Report for the Semester in which Shell completes all evaluation, excavation, and response actions required by Subsections III.C and III.D of this Appendix for a particular Pipeline segment.
 - a. Within 120 Days of the date of any Semiannual Progress Report containing a

 Notice of Completion described in the preceding sentence, or at any time before receiving the Notice of Completion, EPA may submit to Shell a written Notice of Review stating that EPA seeks further review of all or part of Shell's evaluation, excavation, and response actions for a Pipeline segment.

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- b. Within 30 Days of the date of any Notice of Review, or such longer period to which EPA and Shell agree in writing, Shell shall meet with EPA and, at EPA's option, any authorized representatives or EPA contractors, to discuss EPA's concerns.
- c. Within 30 Days after the conclusion of any meeting required by the preceding sentence, EPA may issue to Shell a written preliminary Notice of Dispute briefly describing the elements of the dispute.
- d. Within 20 Days after the date of any preliminary Notice of Dispute, Shell may submit to EPA a written response.
- e. If EPA does not rescind a preliminary Notice of Dispute in writing within 45

 Days of such notice, or such longer period to which EPA and Shell agree in writing, the preliminary Notice of Dispute shall become final.
- f. Within 10 Working Days after a Notice of Dispute becomes final, a petition for review may be filed with the Court to resolve the dispute. In any such proceeding, the Court will determine whether Shell's evaluation or response actions meet the requirements of Paragraphs 18-25 of this Appendix.
- g. Notwithstanding any other provisions of this Appendix or the Consent Decree, the dispute resolution procedures described in this Paragraph shall be the exclusive mechanism for resolving disputes arising under Paragraphs 18 through 25 of this Appendix except as otherwise provided in this Subparagraph. If the United States has not invoked the dispute resolution procedures in this Paragraph, however, the United States may invoke any available procedure other than the dispute resolution procedures in Section XIII (Dispute Resolution) of the Consent Decree to resolve any issue arising under Paragraphs 18 through 25 of the Appendix.

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H. Extensions of Time to Complete Evaluation and Response Actions

If Shell cannot complete the evaluation or response actions in the time required by Paragraphs 18, 20-22 and 25 of this Appendix despite reasonable and diligent efforts to do so, Shell may submit a written request for an extension of time to EPA, specifying the number of Days of the requested extension, at least 45 Days before the expiration of the relevant deadline. After receiving a written request for an extension of time from Shell pursuant to this Paragraph, EPA shall provide Shell with a written response in which EPA may, in its discretion, either grant or deny, in whole or in part, the requested extension of time. EPA shall not unreasonably deny a request for extension of time pursuant to this Paragraph. If EPA provides Shell with a written response denying Shell's request for an extension of time, the original deadline will remain in effect unless the date that Shell receives EPA's letter denying the extension of time is less than 30 Days before, or at any time after, the original deadline, in which case Shell shall be required to complete the evaluation or response actions within 30 Days of the date that Shell receives EPA's denial.

I. Data Submission and Record Retention Requirements

- 28. Within 10 Days after receiving any request from EPA for a copy of any ILI data or Analyzed ILI Data, Shell shall submit the requested ILI data or Analyzed ILI Data to EPA.
- 29. Record Retention. Shell shall retain all ILI data and Analyzed ILI Data in accordance with the record retention provisions of Section XVI of the Consent Decree.

IV. PRESSURE TESTING

30. Shell shall perform either an ILI pursuant to the requirements of Section III of this Appendix, or a hydrostatic test during 2003 in accordance with the standards and requirements of ASME B31.4-2002, Paragraph 437.4.1 and API RP 1110, on the Sunset

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- to Eldorado 8" segment of the Chase Kansas Products Pipeline System within Shell Pipeline Systems.
- 31. Shell shall perform either an ILI pursuant to the requirements of Section III of this Appendix, or a hydrostatic test during 2003 in accordance with the standards and requirements of ASME B31.4-2002, Paragraph 437.4.1 and API RP 1110, on the Sunset to Eldorado 16" segment of the Chase Colorado Products Pipeline System within Shell Pipeline Systems.
- 32. Shell shall perform either an ILI pursuant to the requirements of Section III of this Appendix, or a hydrostatic test during 2003 and in accordance with the standards and requirements of ASME B31.4-2002, Paragraph 437.4.1 and API RP 1110, on the following segments of the Orion Products Pipeline System within the Shell Pipeline Systems: Underwood to Pride 12" and Pride to Aledo 6".
- 33. Shell shall complete either an ILI pursuant to the requirements of Section III of this Appendix, or a hydrostatic test during 2007 in accordance with the standards and requirements of ASME B31.4-2002, Paragraph 437.4.1 and API RP 1110, on the Peotone to Argo 14" segment of the North Line Products Pipeline System within Shell Pipeline Systems.
- 34. Response Requirements. If a pressure test reveals a Pipeline leak, Shell shall:
 - a. repair or replace the portion of the Pipeline segment where the leak occurred in accordance with the standards in ASME B31.4-2002 Parts 451.6.2 and 451.6.3;
 and
 - b. retest the affected portion of the Pipeline segment in accordance with the applicable standards of 49 C.F.R. Part 195, if required.
- 35. Record Retention. Shell shall retain all records related to pressure testing of segments of Pipeline within Shell Pipeline Systems in accordance with the record retention provisions of Section XVI of the Consent Decree.

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V. CLOSE INTERVAL SURVEYS

- 36. Performance Standard for Cathodic Protection. Shell shall maintain a Cathodic Protection System on all Pipeline within Shell Pipeline Systems in accordance with NACE RP0169-2002. Shell shall follow corrosion control criteria in NACE RP0169-2002 including one or more of the criteria and other conditions for cathodic protection in section 6 of NACE RP0169-2002.
- 37. Close Interval Surveys. Shell shall complete one close interval survey on all Pipeline within Shell Pipeline Systems within 4 years of the Effective Date of the Consent Decree. Shell shall perform the close interval survey in accordance with NACE RP0169-2002 at maximum intervals of four feet (maintaining an overall system-wide average no greater than three feet) excluding areas in which such an interval is impracticable such as paved areas and railroads. Shell shall perform the close interval survey in a manner sufficient to determine whether or not the Cathodic Protection System conforms with the criteria referenced in the preceding Paragraph for all locations surveyed. Shell may utilize any data or other information from the close interval survey conducted during 2002 to meet the requirements of this Paragraph.
- 38. <u>Corrective Action</u>. If any portion of the Pipeline within Shell Pipeline Systems does not meet the performance standard referenced in Paragraph 36 of this Appendix, Shell shall perform all corrective action necessary to comply with that standard within 2 years after completing the close interval survey required by the preceding Paragraph.
- 39. Rotating Disk Visual Indicator Requirements. Within 3 years after the Effective Date of the Consent Decree, Shell shall install rotating disc visual indicators on all rectifiers within Shell Pipeline Systems. Within 1 year after installing the rotating disk visual indicators, and annually thereafter until the Consent Decree is terminated, Shell shall complete an on the ground survey to check the rotating disk visual indicator on each

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44.

Exposed Pipe. Shell shall, within 180 Days after completing the survey required by
Paragraph 41 of this Appendix, conduct an inspection of any Exposed Pipe discovered
during the survey to determine whether or not the Exposed Pipe has any of the defects or
anomalies described in Paragraph 24 of this Appendix unless Shell needs to obtain a
permit or access before conducting the inspection. If Shell needs to obtain a permit or
access before conducting the inspection, Shell shall (1) apply for the permit within
90 Days after completing the survey in which the Exposed Pipe was discovered; and
(2) conduct the inspection within 180 Days after obtaining the necessary permit or access.
If an inspection confirms the existence of any such defect or anomaly, Shell shall repair,
remove, or replace the Exposed Pipe in accordance with the standards referenced in
Paragraph 23 of this Appendix and in accordance with the applicable schedule required
by Paragraphs 20-22 of this Appendix, using the date of inspection as the Date of
Discovery. Shell shall, at the time of any such repair, removal, or replacement, evaluate
the risk of outside force damage to the Exposed Pipe, and in areas susceptible to outside
force damage shall either (1) restore the cover to the standards in ASME B31.4-2002,
Table 434.6(a); or (2) install physical protective measures necessary to provide
reasonable assurance of safety and integrity of the Pipeline. For all other Exposed Pipe
locations, Shell shall annually inspect such locations in accordance with this Paragraph.
Challery Cover Dine Within 18 months after Chall discovers Challery Cover Dine during

- 45. <u>Shallow Cover Pipe</u>. Within 18 months after Shell discovers Shallow Cover Pipe during the inspection required by Paragraph 42 of this Appendix, Shell shall either:
 - a. restore the cover to the standards in ASME B31.4-2002, Table 434.6(a); or
 - b. with EPA's prior written approval, mitigate the Shallow Cover Pipe in a manner sufficient to provide reasonable assurance of safety and integrity of the Pipeline.
- 46. <u>Pipeline Visibility and Accessibility</u>. Within one year after completing the initial survey required by Paragraph 41 of this Appendix, and once every two years thereafter until the Consent Decree is terminated, to the extent practicable, Shell shall mow, clear brush, and

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perform all other actions necessary to ensure that the entire Pipeline right-of-way is visible and accessible for effective emergency response, Pipeline maintenance, inspection, and survey activities.

47. <u>Pipeline Signs</u>. Within two years of the Effective Date of the Consent Decree, and once every two years thereafter, Shell shall, as practicable, install, repair, clear vegetation obscuring, or replace, as necessary, pipeline signs directly above or in close proximity to the buried Pipeline so that, to the extent practicable, at least one pipeline sign is visible from any point along the Pipeline right-of-way.

VII. EMERGENCY FLOW RESTRICTIVE DEVICES

- 48. <u>Shell EFRD Analysis</u>. Within one year after the Effective Date of this Consent Decree, using its proprietary spill model, surge analysis, and other appropriate information or data, Shell shall complete an analysis to determine appropriate locations for installation of EFRDs that will provide additional protection to the public or the environment.
- 49. <u>EFRD Installation</u>. Within 4 years of the Effective Date of the Consent Decree, Shell shall install 8 EFRDs within Shell Pipeline Systems that will provide additional protection to the public or the environment.

VIII. COMPUTATIONAL PIPELINE MONITORING SYSTEM LEAK DETECTION TESTING

50. Testing Requirement. Within 180 Days after the Effective Date of the Consent Decree, Shell shall conduct a computational pipeline monitoring (CPM) system test on at least two of the Pipelines within Shell Pipeline Systems to determine whether or not the leak detection capability of the CPM software meets the performance standards and requirements of applicable regulatory requirements and API 1130. Within one year after Shell performs the CPM tests described in the preceding sentence, Shell shall perform one CPM test on each of the Pipelines that have not yet been tested. Following the completion of the initial CPM tests described in the first two sentences of this Paragraph,

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- Shell shall repeat those CPM tests on all of the pipelines within Shell Pipeline Systems at least once every two years.
- 51. Corrective Action. If the testing required by the preceding Paragraph reveals that the leak detection capability of the CPM software does not meet the performance standards and requirements of applicable regulatory requirements and API 1130, Shell shall, within 6 months after completing the testing, perform all corrective action necessary to meet those performance standards and requirements.

IX. DAMAGE PREVENTION PROGRAM

- 52. Within 180 Days of the Effective Date of this Consent Decree, Shell shall submit to EPA and the Independent Monitoring Contractor a written Damage Prevention Program, which Shell shall implement within the time required by Paragraph 61 of this Appendix. The Damage Prevention Program shall require Shell to conduct the activities described below:
 - a. Shell shall continuously participate in a One-Call System covering each area in which a Pipeline operated by Shell Pipeline Systems is located.
 - b. For all Excavation Activity within 50 feet of the Pipeline right-of-way that has any potential to affect the integrity of the Pipeline of which Shell or its contractors either knows or should know through a One-Call System, patrolling, or observation, Shell shall:
 - 1. obtain, if available, daily from the Excavator information regarding the construction schedule and any changes to the schedule;
 - obtain, if available, daily from the Excavator information regarding the type of excavation and equipment the Excavator plans to use and any changes to those plans;
 - obtain, if available, from the Excavator and retain drawings, plans, and any other documents necessary or helpful to monitor the Excavation

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- Activity, including any documents reflecting any change in the Excavator's planned Excavation Activity;
- 4. ensure that a qualified Shell employee or contractor is physically present at the construction site to monitor Excavation Activity during the entire time that Excavation Activity occurs within 50 feet of the Pipeline; and
- 5. ensure that all Shell employees and contractors that monitor Excavation
 Activity prepare a daily written report of the monitored Excavation
 Activity, and that such daily reports are retained in Shell's files in
 accordance with the record retention provisions of Section XVI of the
 Consent Decree.
- c. When portions of the Pipeline are excavated for maintenance or inspection, Shell shall install warning mesh above the Pipeline at the time that the Pipeline is reburied.
- d. Shell shall ensure that the provisions of the Damage Prevention Program are incorporated or cross referenced, as appropriate, into Shell's written procedures and plans for training, operations, maintenance, and emergencies.

X. MANAGEMENT OF CHANGE PROGRAM

- 53. Within 180 Days of the Effective Date of this Consent Decree, Shell shall submit to EPA and the Independent Monitoring Contractor a written Management of Change Program, which Shell shall implement within the time required by Paragraph 61 of this Appendix.

 The Management of Change Program shall require Shell to conduct the activities described below:
 - develop procedures to manage and review all pressure, flow, and control settings
 on existing protective devices, and changes to any such devices or their
 components within Shell Pipeline Systems;

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time required by Paragraph 61 of this Appendix. The Training Program shall require the activities described below:

- a. Shell shall appoint one or more SCADA Controller Training Coordinator(s) responsible for training, maintaining training documentation, and ensuring that Shell complies with all provisions of this Paragraph.
- For all new SCADA controllers of Shell Pipeline Systems hired on or after the
 Effective Date of this Consent Decree, Shell shall:
 - 1. include in the training required by this Subparagraph classroom and practical exercises and the use of a pipeline simulator;
 - provide training and qualification testing pursuant to API 1161, specific to the SCADA system in use that includes responding to abnormal operations and starting up and shutting down any part of the Shell Pipeline Systems;
 - 3. test each new SCADA controller's knowledge of the SCADA system to ensure that the SCADA controller is capable of exercising sound judgment to perform the functions needed during both normal and abnormal operations; and
 - 4. require the new SCADA controller to work daylight shift for a minimum of the first two weeks of performing SCADA functions.
- c. For all SCADA controllers of Shell Pipeline Systems hired before the Effective Date of this Consent Decree, Shell shall:
 - review the training and qualification records of each SCADA controller to determine whether or not each SCADA controller is capable of exercising sound judgment to perform the functions needed during both normal and abnormal conditions; and

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PROCEDURE FOR INDEPENDENT REVIEW AND IMPLEMENTATION

XII.

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XIII. INDEPENDENT MONITORING CONTRACTOR

- 62. Shell shall follow the procedure in Section XIV of this Appendix to select, and contract with, an Independent Monitoring Contractor (IMC) to perform the duties described in Paragraph 65 of this Appendix. The IMC shall assign no more than 4 qualified employees to perform these duties.
- 63. Shell shall cooperate fully with the IMC and shall facilitate the IMC's execution of duties described in Paragraph 65 of this Appendix by providing the IMC with reasonable access to all relevant records, employees, and the physical Shell Pipeline Systems.
- Qualifications. The IMC shall have one or more employees with demonstrated qualifications and experience in the technical areas relevant to the duties of the Independent Monitoring Contractor in Paragraph 65 of this Appendix. With the prior expressed approval of both EPA and Shell, the Independent Monitoring Contractor may also contract, as appropriate, with other outside individuals or entities that are qualified to perform the assigned tasks and satisfy the background requirements of Paragraph 67 of this Appendix.
- 65. <u>Duties of the Independent Monitoring Contractor</u>. The Independent Monitoring Contractor shall perform the following duties:
 - a. review each Semiannual Report submitted by Shell pursuant to Paragraph 13 of the Consent Decree, and any other documents that the Independent Monitoring Contractor or EPA deems necessary, to determine whether or not Shell has complied with all provisions of the Consent Decree and this Appendix and report any determinations of non-compliance to Shell and EPA within 30 Days of the date of each Semiannual Report; provided, however, that the IMC's duties within the scope of this Appendix or the Consent Decree shall not include reviewing ILI data or Analyzed ILI Data;

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- b. Review the programs submitted by Shell pursuant to Sections IX-XI of this Appendix to recommend any revisions necessary to ensure compliance with the Consent Decree and this Appendix and submit those recommendations to both EPA and Shell within 30 Days after the date that Shell submits each proposed program;
- c. review and analyze the written audit report of the Training Program that Shell submits pursuant to Section XI of this Appendix and notify EPA and Shell of any determinations of non-compliance with this Appendix revealed by the Independent Monitoring Contractor's analysis of the written audit report;
- d. on each of the following pipeline systems within Shell Pipeline Systems: East
 Line Products, North Line Products, Chase Kansas Products, Chase Colorado
 Products, and Orion Products, each calendar year conduct up to one physical site
 visit, with up to 4 persons, lasting up to 3 Days for each visit, including employee
 or contractor interviews, record review, and inspections and observations of any
 activities if deemed appropriate, to assess whether or not Shell is complying with
 this Appendix. Absent emergency, any such site visit shall be made at reasonable
 times and after reasonable notice to Shell;
- e. each calendar year conduct up to one additional physical site visit, with up to 4 persons, lasting up to 3 Days, other than the site visits in the preceding Subparagraph, on any one of the pipeline systems within Shell Pipeline Systems, in the unreviewable discretion of the Independent Monitoring Contractor or at the request of EPA, including employee or contractor interviews, record review, and inspections and observations of any activities if deemed appropriate, to assess whether or not Shell is complying with this Appendix;
- f. confer on request by either Shell or EPA, separately or jointly, to discuss implementation of this Appendix and to assist in dispute resolution;

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- g. investigate concerns regarding potential noncompliance with this Appendix as requested by EPA;
- h. immediately notify Shell of problems that may affect compliance with this

 Appendix, and if the problems are not resolved within 15 Days after the

 Independent Monitoring Contractor notifies Shell, notify EPA of the problems,
 and summarize those problems in a report to EPA that includes recommendations
 regarding how Shell can resolve those problems;
- i. immediately notify Shell and EPA of any circumstance that may constitute
 noncompliance with this Appendix and summarize those circumstances in a
 report to both Shell and EPA that includes recommendations regarding how Shell
 can resolve the circumstance;
- submit an annual report to Shell and EPA within 30 Days after the end of each calendar year summarizing:
 - site visits that the Independent Monitoring Contractor conducted during the year pursuant to Subparagraphs d and e of this Paragraph;
 - 2. any problems that may affect compliance with this Appendix;
 - any circumstances that may constitute noncompliance with this Appendix;
 and
 - 4. the status of Shell's compliance with this Appendix during the year; and
- k. any other duties or responsibilities specifically required of the Independent

 Monitoring Contractor in the Consent Decree or in this Appendix.
- 66. Neither Shell nor EPA shall be bound by the recommendations of the Independent Monitoring Contractor.

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XIV. PROCEDURE FOR SELECTING, CONTRACTING WITH, AND REPLACING THE INDEPENDENT MONITORING CONTRACTOR

- 67. Qualifications and Background. The Independent Monitoring Contractor shall have the qualifications and experience required by Paragraph 64 of this Appendix. The Independent Monitoring Contractor shall not:
 - be a present employee of Shell, or of any owner, parent corporation, subsidiary, or a. predecessor corporation of Shell;
 - have a current financial or ownership interest in any of Shell's businesses or b. operations; or
 - be a Shell contractor, or employee of such contractor, hired to implement any c. provision of this Appendix other than the provisions of Section XIII (Independent Monitoring Contractor).
- 68. Selection Procedure. The Independent Monitoring Contractor shall be selected pursuant to the procedures described below.
 - Within 30 Days from the Effective Date of this Consent Decree or 30 Days from a. the date that the parties agree on the need for a replacement consultant pursuant to Paragraph 70 of this Appendix, or a final decision affirming the need for a replacement consultant is rendered pursuant to the dispute resolution procedures in Section XIII (Dispute Resolution) of the Consent Decree, Shell shall submit to EPA (1) a letter providing the name of a proposed independent consultant that is willing to serve as the Independent Monitoring Contractor; (2) a resume or curriculum vitae of each individual who would perform the required work; (3) the terms of payment for the consultant's services; and (4) a description of any current or past financial relationship between the proposed consultant, and the consultant's employees who will perform the required work, and Shell or the related entities specified in the preceding Paragraph, which Shell shall certify as

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accurate. After receiving such information, EPA shall submit a letter to Shell that either accepts or rejects the proposed consultant. EPA shall not unreasonably withhold approval of a proposed consultant. If the letter from EPA accepts the proposed consultant, Shell shall contract with the consultant to perform the required work in accordance with the procedure in Paragraph 69 of this Appendix. If EPA rejects the proposed consultant, Shell shall repeat the procedure in this Paragraph up to two additional times by recommending another proposed consultant.

- b. If EPA rejects three of Shell's proposed consultants, EPA shall then submit to Shell a letter providing (1) the names of at least three proposed independent consultants who are willing to serve; (2) a resume or curriculum vitae of each of consultants' personnel who would perform the required work; and (3) a description of any current or past financial relationship related to this case between each proposed consultant and the United States. Shell then shall have 30 Days from the date of such letter to submit to EPA a letter accepting one of the three proposed consultants or rejecting all of them. If Shell accepts one of the three consultants proposed by EPA, Shell shall contract with the consultant to perform the required work in accordance with the procedure in Paragraph 69 of this Appendix. If Shell rejects all of the consultants proposed by EPA, either EPA or Shell may invoke the dispute resolution procedures in Section XIII (Dispute Resolution) of the Consent Decree.
- 69. Contracting Procedure. Within 30 Days of the date of a letter from EPA or Shell accepting a proposed Independent Monitoring Contractor, or a final decision pursuant to the dispute resolution procedures in Section XIII (Dispute Resolution) of the Consent Decree designating an Independent Monitoring Contractor, Shell shall draft, and submit to EPA for approval, a proposed contract obligating the Independent Monitoring

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Contractor to perform the duties described in Paragraph 65 of this Appendix. Within 15 Days after the date of any letter from EPA notifying Shell of any needed revisions to the contract with the Independent Monitoring Contractor, Shell shall incorporate, modify, or reject the revisions and submit the revised contract to EPA for approval. Within 30 Days of the date of EPA's written approval of the contract, Shell shall enter into the contract with the Independent Monitoring Contractor, and submit a copy of the executed contract to EPA.

70. Replacement Procedure. If the Independent Monitoring Contractor becomes unable or unwilling to perform or complete the required work, or for other good cause, Shell and EPA shall confer in good faith regarding whether or not Shell and EPA need to select a replacement Independent Monitoring Contractor. If Shell and EPA agree on the need to select a replacement Independent Monitoring Contractor, Shell and EPA shall select the replacement Independent Monitoring Contractor in accordance with the selection procedures in Paragraph 68 of this Appendix. If Shell and EPA do not agree on the need to select a replacement Independent Monitoring Contractor, either Shell or EPA may invoke the dispute resolution procedures in Section XIII (Dispute Resolution) of the Consent Decree.

XV. SEMIANNUAL PROGRESS REPORTS

71. Semiannual Progress Reports. Beginning on the Effective Date of this Decree and through and including the Semester in which this Consent Decree is terminated pursuant to Section XXII (Termination Date), Shell shall submit certified Semiannual Progress Reports to EPA and the Independent Monitoring Contractor. The first Semiannual Progress Report shall be due within 45 Days of the close of the first Semester ending more than 90 Days after entry of this Consent Decree, with subsequent reports due within 30 Days of the close of each Semester thereafter.

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72. <u>Certification Requirement</u>. Shell shall submit the following written certification with each Semiannual Progress Report, signed by a Responsible Corporate Official:

I certify under penalty of law that this submission was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. I further certify under penalty of law that, to the best of my knowledge, based on my reasonable inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

- 73. Contents of Semiannual Progress Reports. Shell shall include in each Semiannual Progress Report a statement regarding Shell's activities during the Semester for each of the categories described below. If no information exists for a particular category during the Semester, Shell nevertheless shall include that category in the report with an affirmative statement that no information exists for that category and a brief explanation why no such information exists. Each Semiannual Progress Report shall describe:
 - a. A summary of all actions Shell has taken to comply with Section III of this

 Appendix including (1) ILIs conducted; (2) Analyzed ILI Data received; and

 (3) excavations and responses conducted. Additionally, for each defect or
 anomaly that Shell excavates or investigates in any way pursuant to Section III of
 this Appendix, Shell shall describe:
 - the location of the defect or anomaly including, as applicable, state,
 county, city, latitude and longitude, pipeline milepost segment, and any
 other information necessary or helpful to precisely identify the location of
 the anomaly;
 - a pipe description including outside diameter, wall thickness, grade, manufacturer, if known, depth of cover, type of coating, and date of construction;

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1	3.	the da	e of completion of the ILI that identified the location of the defect
2		or ano	maly;
3	4.	the ide	ntity of the ILI Vendor and a description of the ILI tool used;
4	5.	ILI de	ails such as the inspection chart number or other comparable
5		identif	ier, odometer number, and defect or anomaly number;
6	6.	a desc	ription of the defect or anomaly as represented in the Analyzed ILI
7		Data r	eport;
	7.	the Da	te of Discovery of the defect or anomaly identified Pursuant to
8		Paragr	aph 18 of this Appendix;
9	8.	the dat	e that Shell or its agents excavated and further evaluated the defec
10		or ano	maly;
11	9.	a sumi	nary of Shell's findings of the evaluation for the defect or anomaly
12		includ	ing:
13		i.	the depth of gouges and grooves as a percentage of nominal wall
14			thickness;
15		ii.	the depth of dents as a percentage of nominal pipe diameter;
16		iii.	whether or not each dent affected pipe curvature or a seam, girth,
17			or repair weld and, if so, how;
18		iv.	whether or not each dent contained a scratch, gouge, or groove;
19			and
20			(a) the length of each scratch, gouge, and groove; and
21			(b) the depth of each scratch, gouge, and groove at its deepest
			point;
22		v.	measurements and other field observations regarding crack
23			indications; and
24			
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1		vi.	the extent of corrosion including its length, its circumferential
2	-		extent around the pipe, and the percentage of wall thickness loss a
3			the deepest point of corrosion; and
4	10.	a state	ement regarding whether or not the defect or anomaly was repaired,
5		remo	ved, or replaced, and the reason for any decision not to repair,
6		remov	ve, or replace the defect or anomaly;
7	11.	a desc	cription of any repair, removal, or replacement, of the defect or
		anom	aly; and
8	12.	a state	ement regarding whether or not the evaluation and disposition of
9		each o	defect or anomaly complied with this Appendix;
10	b. a su	mmary of	f all actions that Shell has taken to comply with Section IV of the
11	App	endix inc	luding:
12	1.	hydro	static tests conducted;
13	2.	anom	alies, leaks, or Pipeline failures discovered during, or resulting from,
14		any h	ydrostatic tests conducted; and
15	3.	Pipeli	ne repairs or replacements conducted of anomalies, leaks, or
16		Pipeli	ne failures discovered as a result of any hydrostatic tests;
17	c. a sur	nmary of	f all actions that Shell has taken to comply with Section V of the
18	App	endix reg	garding close interval surveys including:
19	1.	a sum	mary of the pipeline segments surveyed including location, miles
20		inspec	cted, and the average lengths of the intervals;
21	2.	the da	te of the survey;
	3.	the ide	entity of any contractor used;
22	4.	the re	sults of the survey;
23	5.	wheth	er or not the survey was conducted in accordance with NACE
24		RP010	59-2002;
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1		2.	the type or specification of the EFRD installed, including remote operator
2	<u> </u> 		and
3		3.	Shell's analysis for installing the EFRD at the location selected;
4	f.	a sum	mary of all actions that Shell has taken to comply with Section VIII of the
5		Apper	ndix regarding testing of, and corrective action for the computational
6		pipeli	ne monitoring system including:
		1.	all tests conducted; and
7		2.	corrective action conducted;
8	g.	a sum	mary of all actions that Shell has taken to comply with Section IX of the
9		Apper	ndix including:
10		1.	revisions of Shell's written procedures and plans for training, operations,
11			maintenance, and emergencies as such revisions relate to the Damage
12			Prevention Program, and as appropriate; and
13		2.	third party Excavation Activity that Shell monitored and damage to the
14			Pipeline that Shell identified during such monitoring;
15	h.	a sum	mary of all actions that Shell has taken to comply with Section X of the
16		Apper	adix including:
17	I	1.	a brief description of the program and procedures to manage and review
18			all Shell Pipeline Systems pressure, flow, and control setting changes on
19			existing or newly installed protective and control devices; and
20		2.	the date of any revision to Shell's written procedures and plans for Shell
21			Pipeline Systems to reflect each change, if any, to adjust pressure, flow,
			and control settings for existing and newly installed protective and control
22			devices;
23			
24			
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1	"Exhibit 4" is API RP 1130.
2	"Exhibit 5" is ASME B31.4-2002.
3	"Exhibit 6" is ASME B31G-1991.
4	"Exhibit 7" is NACE RP0169-2002.
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